

Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Boron Nitride Nanotubes(BNNTs)for Composite Materials market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

The structure of boron nitride nanotubes is similar to that of carbon nanotubes. B atoms and N atoms alternately replace C atoms in graphite sheets to form nanotube-like structures, which can be divided into single-walled tubes and multi-walled tubes. According to the structure, it can be divided into two types: single-walled nanotubes (SWBNNT) and multi-walled nanotubes (MWBNNNT). Boron nitride nanotubes have applications in many fields, but at present it is most commonly used in the field of composite materials. It can be used as a filler added to the matrix material and mixed with a variety of substances, including resin, carbon fiber, glass fiber, polyester fiber, plastic, ceramics, etc., and is widely used in the field of composite materials. Like carbon nanotubes (CNTs), boron nitride nanotubes also have the advantages of low density and high mechanical strength; but unlike CNTs, boron nitride nanotubes also have excellent electrical insulation, thermal stability, and chemical stability properties, and high thermal conductivity.

Boron nitride nanotube (BNNT) is a new type of nanomaterial with excellent chemical stability, oxidation resistance, high thermal conductivity and strong mechanical strength. It has good application prospects in thermal management, composite materials, water purification membrane and other fields. Boron nitride nanotubes can be used as high-performance shielding materials and fillers for high-wear-resistant composite materials, used in production scenarios such as bulletproof vests, space suits, and human

protective equipment; they can be used as thermal interface materials in the production scenarios of new energy vehicle coolants, and can realize the rapid heat dissipation effect of the battery; it can be used as a high temperature resistant material in the manufacturing site of the charging interface of electric vehicles. The terminal field involves new energy vehicles, textiles, aerospace, national defense, clean energy, biomedicine, etc., and the market demand is relatively broad. According to the boron nitride nanotube (BNNT) report released by the company, COVID-19 and the Russia-Ukraine war will have a dual impact on the market in 2022. The global boron nitride nanotube (BNNT) market is expected to reach USD 84 million by 2029, growing by 10% in 2029, and reaching 43 million in 2022, with a CAGR of 10.0% from 2023 to 2029. The demand for advanced aerospace materials along with synthesis and biomedicine are the major drivers of the industry.

The United States is the largest market, accounting for about 6% of the market share.

Major manufacturers include Tekna, BNNT, BN Nano, Nan Integris, etc. The top three companies account for about 4% of the market share. Shanghai Boron Moment New Material Technology Co., Ltd. is the fifth high-tech enterprise in the world and the first in China engaged in the research, development, production and sales of boron nitride nanotubes and composite materials. The company's annual production capacity of boron nitride nanotubes is expected to break through tons.

The Global Info Research report includes an overview of the development of the Boron Nitride Nanotubes(BNNTs)for Composite Materials industry chain, the market status of High Temperature Structural Materials (70%-90%, 90%-98%), Strong Wave-Transparent Materials (70%-90%, 90%-98%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Boron Nitride Nanotubes(BNNTs)for Composite Materials.

Regionally, the report analyzes the Boron Nitride Nanotubes(BNNTs)for Composite Materials markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Boron Nitride Nanotubes(BNNTs)for Composite Materials market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Boron Nitride

Nanotubes(BNNTs)for Composite Materials market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Boron Nitride Nanotubes(BNNTs)for Composite Materials industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Purity (e.g., 70%-90%, 90%-98%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Boron Nitride Nanotubes(BNNTs)for Composite Materials market.

Regional Analysis: The report involves examining the Boron Nitride Nanotubes(BNNTs)for Composite Materials market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Boron Nitride Nanotubes(BNNTs)for Composite Materials market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Boron Nitride Nanotubes(BNNTs)for Composite Materials:

Company Analysis: Report covers individual Boron Nitride Nanotubes(BNNTs)for Composite Materials manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Boron Nitride Nanotubes(BNNTs)for Composite Materials This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (High Temperature Structural Materials, Strong Wave-

Transparent Materials).

Technology Analysis: Report covers specific technologies relevant to Boron Nitride Nanotubes(BNNTs)for Composite Materials. It assesses the current state, advancements, and potential future developments in Boron Nitride Nanotubes(BNNTs)for Composite Materials areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Boron Nitride Nanotubes(BNNTs)for Composite Materials market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Boron Nitride Nanotubes(BNNTs)for Composite Materials market is split by Purity and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value.

Market segment by Purity

70%-90%

90%-98%

?98%

Market segment by Application

High Temperature Structural Materials

Strong Wave-Transparent Materials

Insulating And Thermally Conductive Materials

Neutron Radiation Resistant Materials

Other

Major players covered

Tekna

BNNT

BN Nano

Nan Integris

Shanghai Boron Moment New Material Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Boron Nitride Nanotubes(BNNTs)for Composite Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Boron Nitride Nanotubes(BNNTs)for

Composite Materials, with price, sales, revenue and global market share of Boron Nitride Nanotubes(BNNTs)for Composite Materials from 2018 to 2023.

Chapter 3, the Boron Nitride Nanotubes(BNNTs)for Composite Materials competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Boron Nitride Nanotubes(BNNTs)for Composite Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Purity and application, with sales market share and growth rate by purity, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and Boron Nitride Nanotubes(BNNTs)for Composite Materials market forecast, by regions, purity and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Boron Nitride Nanotubes(BNNTs)for Composite Materials.

Chapter 14 and 15, to describe Boron Nitride Nanotubes(BNNTs)for Composite Materials sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Boron Nitride Nanotubes(BNNTs)for Composite Materials

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Purity

1.3.1 Overview: Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity: 2018 Versus 2022 Versus 2029

1.3.2 70%-90%

1.3.3 90%-98%

1.3.4 >98%

1.4 Market Analysis by Application

1.4.1 Overview: Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 High Temperature Structural Materials

1.4.3 Strong Wave-Transparent Materials

1.4.4 Insulating And Thermally Conductive Materials

1.4.5 Neutron Radiation Resistant Materials

1.4.6 Other

1.5 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size & Forecast

1.5.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (2018-2029)

1.5.3 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price (2018-2029)

2 MANUFACTURERS PROFILES

2.1 Tekna

2.1.1 Tekna Details

2.1.2 Tekna Major Business

2.1.3 Tekna Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services

2.1.4 Tekna Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.1.5 Tekna Recent Developments/Updates
- 2.2 BNNT
 - 2.2.1 BNNT Details
 - 2.2.2 BNNT Major Business
 - 2.2.3 BNNT Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services
 - 2.2.4 BNNT Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.2.5 BNNT Recent Developments/Updates
- 2.3 BN Nano
 - 2.3.1 BN Nano Details
 - 2.3.2 BN Nano Major Business
 - 2.3.3 BN Nano Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services
 - 2.3.4 BN Nano Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.3.5 BN Nano Recent Developments/Updates
- 2.4 Nan Integris
 - 2.4.1 Nan Integris Details
 - 2.4.2 Nan Integris Major Business
 - 2.4.3 Nan Integris Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services
 - 2.4.4 Nan Integris Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.4.5 Nan Integris Recent Developments/Updates
- 2.5 Shanghai Boron Moment New Material Technology
 - 2.5.1 Shanghai Boron Moment New Material Technology Details
 - 2.5.2 Shanghai Boron Moment New Material Technology Major Business
 - 2.5.3 Shanghai Boron Moment New Material Technology Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services
 - 2.5.4 Shanghai Boron Moment New Material Technology Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.5.5 Shanghai Boron Moment New Material Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BORON NITRIDE NANOTUBES(BNNTS)FOR COMPOSITE MATERIALS BY MANUFACTURER

- 3.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Revenue by Manufacturer (2018-2023)
- 3.3 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
 - 3.4.1 Producer Shipments of Boron Nitride Nanotubes(BNNTs)for Composite Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2022
 - 3.4.2 Top 3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Manufacturer Market Share in 2022
 - 3.4.2 Top 6 Boron Nitride Nanotubes(BNNTs)for Composite Materials Manufacturer Market Share in 2022
- 3.5 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Overall Company Footprint Analysis
 - 3.5.1 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Region Footprint
 - 3.5.2 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Company Product Type Footprint
 - 3.5.3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Region
 - 4.1.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2018-2029)
 - 4.1.2 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2018-2029)
 - 4.1.3 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Region (2018-2029)
- 4.2 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029)
- 4.3 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029)
- 4.4 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption

Value (2018-2029)

4.5 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value (2018-2029)

4.6 Middle East and Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value (2018-2029)

5 MARKET SEGMENT BY PURITY

5.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

5.2 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity (2018-2029)

5.3 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Purity (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

6.2 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application (2018-2029)

6.3 Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

7.2 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

7.3 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Country

7.3.1 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2029)

7.3.2 North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

8.2 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

8.3 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Country

8.3.1 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2029)

8.3.2 Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

9.2 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Region

9.3.1 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

10.1 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

10.2 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

10.3 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Country

10.3.1 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2029)

10.3.2 South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2029)

11.2 Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Size by Country

11.3.1 Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

12.1 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Drivers

12.2 Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Restraints

12.3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

12.5 Influence of COVID-19 and Russia-Ukraine War

12.5.1 Influence of COVID-19

12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Boron Nitride Nanotubes(BNNTs)for Composite Materials and Key Manufacturers

13.2 Manufacturing Costs Percentage of Boron Nitride Nanotubes(BNNTs)for Composite Materials

13.3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Production Process

13.4 Boron Nitride Nanotubes(BNNTs)for Composite Materials Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Boron Nitride Nanotubes(BNNTs)for Composite Materials Typical Distributors

14.3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity, (USD Million), 2018 & 2022 & 2029

Table 2. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Tekna Basic Information, Manufacturing Base and Competitors

Table 4. Tekna Major Business

Table 5. Tekna Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services

Table 6. Tekna Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (Kg), Average Price (USD/g), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Tekna Recent Developments/Updates

Table 8. BNNT Basic Information, Manufacturing Base and Competitors

Table 9. BNNT Major Business

Table 10. BNNT Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services

Table 11. BNNT Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (Kg), Average Price (USD/g), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. BNNT Recent Developments/Updates

Table 13. BN Nano Basic Information, Manufacturing Base and Competitors

Table 14. BN Nano Major Business

Table 15. BN Nano Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services

Table 16. BN Nano Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (Kg), Average Price (USD/g), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. BN Nano Recent Developments/Updates

Table 18. Nan Integris Basic Information, Manufacturing Base and Competitors

Table 19. Nan Integris Major Business

Table 20. Nan Integris Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services

Table 21. Nan Integris Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (Kg), Average Price (USD/g), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

- Table 22. Nan Integris Recent Developments/Updates
- Table 23. Shanghai Boron Moment New Material Technology Basic Information, Manufacturing Base and Competitors
- Table 24. Shanghai Boron Moment New Material Technology Major Business
- Table 25. Shanghai Boron Moment New Material Technology Boron Nitride Nanotubes(BNNTs)for Composite Materials Product and Services
- Table 26. Shanghai Boron Moment New Material Technology Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (Kg), Average Price (USD/g), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 27. Shanghai Boron Moment New Material Technology Recent Developments/Updates
- Table 28. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Manufacturer (2018-2023) & (Kg)
- Table 29. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Revenue by Manufacturer (2018-2023) & (USD Million)
- Table 30. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Manufacturer (2018-2023) & (USD/g)
- Table 31. Market Position of Manufacturers in Boron Nitride Nanotubes(BNNTs)for Composite Materials, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022
- Table 32. Head Office and Boron Nitride Nanotubes(BNNTs)for Composite Materials Production Site of Key Manufacturer
- Table 33. Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Company Product Type Footprint
- Table 34. Boron Nitride Nanotubes(BNNTs)for Composite Materials Market: Company Product Application Footprint
- Table 35. Boron Nitride Nanotubes(BNNTs)for Composite Materials New Market Entrants and Barriers to Market Entry
- Table 36. Boron Nitride Nanotubes(BNNTs)for Composite Materials Mergers, Acquisition, Agreements, and Collaborations
- Table 37. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2018-2023) & (Kg)
- Table 38. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2024-2029) & (Kg)
- Table 39. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2018-2023) & (USD Million)
- Table 40. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2024-2029) & (USD Million)
- Table 41. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Region (2018-2023) & (USD/g)

Table 42. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Region (2024-2029) & (USD/g)

Table 43. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2023) & (Kg)

Table 44. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2024-2029) & (Kg)

Table 45. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity (2018-2023) & (USD Million)

Table 46. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity (2024-2029) & (USD Million)

Table 47. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Purity (2018-2023) & (USD/g)

Table 48. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Purity (2024-2029) & (USD/g)

Table 49. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2023) & (Kg)

Table 50. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2024-2029) & (Kg)

Table 51. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application (2018-2023) & (USD Million)

Table 52. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application (2024-2029) & (USD Million)

Table 53. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Application (2018-2023) & (USD/g)

Table 54. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Application (2024-2029) & (USD/g)

Table 55. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2023) & (Kg)

Table 56. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2024-2029) & (Kg)

Table 57. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2023) & (Kg)

Table 58. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2024-2029) & (Kg)

Table 59. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2023) & (Kg)

Table 60. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2024-2029) & (Kg)

Table 61. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Country (2018-2023) & (USD Million)

Table 62. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Country (2024-2029) & (USD Million)

Table 63. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Purity (2018-2023) & (Kg)

Table 64. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Purity (2024-2029) & (Kg)

Table 65. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Application (2018-2023) & (Kg)

Table 66. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Application (2024-2029) & (Kg)

Table 67. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Country (2018-2023) & (Kg)

Table 68. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Country (2024-2029) & (Kg)

Table 69. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Country (2018-2023) & (USD Million)

Table 70. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Country (2024-2029) & (USD Million)

Table 71. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Purity (2018-2023) & (Kg)

Table 72. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Purity (2024-2029) & (Kg)

Table 73. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Application (2018-2023) & (Kg)

Table 74. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Application (2024-2029) & (Kg)

Table 75. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Region (2018-2023) & (Kg)

Table 76. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales

Quantity by Region (2024-2029) & (Kg)

Table 77. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Region (2018-2023) & (USD Million)

Table 78. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value by Region (2024-2029) & (USD Million)

Table 79. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials

Sales Quantity by Purity (2018-2023) & (Kg)

Table 80. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials

Sales Quantity by Purity (2024-2029) & (Kg)

Table 81. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2023) & (Kg)

Table 82. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2024-2029) & (Kg)

Table 83. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2018-2023) & (Kg)

Table 84. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Country (2024-2029) & (Kg)

Table 85. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2018-2023) & (USD Million)

Table 86. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Country (2024-2029) & (USD Million)

Table 87. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2018-2023) & (Kg)

Table 88. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Purity (2024-2029) & (Kg)

Table 89. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2018-2023) & (Kg)

Table 90. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Application (2024-2029) & (Kg)

Table 91. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2018-2023) & (Kg)

Table 92. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity by Region (2024-2029) & (Kg)

Table 93. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2018-2023) & (USD Million)

Table 94. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Region (2024-2029) & (USD Million)

Table 95. Boron Nitride Nanotubes(BNNTs)for Composite Materials Raw Material

Table 96. Key Manufacturers of Boron Nitride Nanotubes(BNNTs)for Composite Materials Raw Materials

Table 97. Boron Nitride Nanotubes(BNNTs)for Composite Materials Typical Distributors

Table 98. Boron Nitride Nanotubes(BNNTs)for Composite Materials Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Boron Nitride Nanotubes(BNNTs)for Composite Materials Picture
- Figure 2. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Purity, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Purity in 2022
- Figure 4. 70%-90% Examples
- Figure 5. 90%-98% Examples
- Figure 6. ?98% Examples
- Figure 7. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Application in 2022
- Figure 9. High Temperature Structural Materials Examples
- Figure 10. Strong Wave-Transparent Materials Examples
- Figure 11. Insulating And Thermally Conductive Materials Examples
- Figure 12. Neutron Radiation Resistant Materials Examples
- Figure 13. Other Examples
- Figure 14. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 15. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 16. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity (2018-2029) & (Kg)
- Figure 17. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price (2018-2029) & (USD/g)
- Figure 18. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Manufacturer in 2022
- Figure 19. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Manufacturer in 2022
- Figure 20. Producer Shipments of Boron Nitride Nanotubes(BNNTs)for Composite Materials by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 21. Top 3 Boron Nitride Nanotubes(BNNTs)for Composite Materials Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Top 6 Boron Nitride Nanotubes(BNNTs)for Composite Materials Manufacturer (Consumption Value) Market Share in 2022

Figure 23. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Region (2018-2029)

Figure 24. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Region (2018-2029)

Figure 25. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029) & (USD Million)

Figure 26. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029) & (USD Million)

Figure 27. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029) & (USD Million)

Figure 28. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029) & (USD Million)

Figure 29. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value (2018-2029) & (USD Million)

Figure 30. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 31. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Purity (2018-2029)

Figure 32. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Purity (2018-2029) & (USD/g)

Figure 33. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 34. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Application (2018-2029)

Figure 35. Global Boron Nitride Nanotubes(BNNTs)for Composite Materials Average Price by Application (2018-2029) & (USD/g)

Figure 36. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 37. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 38. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Country (2018-2029)

Figure 39. North America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Country (2018-2029)

Figure 40. United States Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Canada Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Mexico Boron Nitride Nanotubes(BNNTs)for Composite Materials

Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 43. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 44. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 45. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Country (2018-2029)

Figure 46. Europe Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Country (2018-2029)

Figure 47. Germany Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. France Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. United Kingdom Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Russia Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Italy Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 53. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 54. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Region (2018-2029)

Figure 55. Asia-Pacific Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Region (2018-2029)

Figure 56. China Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Japan Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Korea Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. India Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Southeast Asia Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Australia Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 63. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 64. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Country (2018-2029)

Figure 65. South America Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Country (2018-2029)

Figure 66. Brazil Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Argentina Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 68. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Purity (2018-2029)

Figure 69. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Application (2018-2029)

Figure 70. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Sales Quantity Market Share by Region (2018-2029)

Figure 71. Middle East & Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value Market Share by Region (2018-2029)

Figure 72. Turkey Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Egypt Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Saudi Arabia Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. South Africa Boron Nitride Nanotubes(BNNTs)for Composite Materials Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Drivers

Figure 77. Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Restraints

Figure 78. Boron Nitride Nanotubes(BNNTs)for Composite Materials Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Boron Nitride Nanotubes(BNNTs)for Composite Materials in 2022

Figure 81. Manufacturing Process Analysis of Boron Nitride Nanotubes(BNNTs)for Composite Materials

Figure 82. Boron Nitride Nanotubes(BNNTs)for Composite Materials Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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